

JUSTIPEN travel report

(C.A. Bertulani – Japan visit 06/17/2008 to 06/28/2008)

Tsukuba (05/26/2008)

By invitation of Prof. Yabana I have presented a seminar on “Odd-even mass differences from self-consistent mean field theories”. I had discussions with Prof. Yabana on the time-dependent Hartree-Fock approach to nuclear excitation. I have also attended seminars by students from Prof. Yabana.

Aizu-Wakamatsu (05/28/2008 – 05/31/2008)

Prof. Sagawa organized an informal meeting "Modern Trends of Nuclear Physics", including seminars by Profs. Kouichi Hagino and Noboru Takigawa (Tohoku University), Carlos Bertulani (Texas A&M University-Commerce), Prof. Hiro Sagawa (Aizu), and the students Myaing Thi Wain, F. Minato and A. Suda (Tohoku University). With Prof. Sagawa I have collaborated on the nuclear pairing problem, performed calculations together, which will lead to a publication.

RCNP, Osaka University (06/04/2008 -- 06/07/2008)

By invitation of Prof. Isao Tanihata, we have discussed several problems related to reactions with radioactive beams, in particular we are very interested on (p,pd) reactions which probes short-range correlations in nuclei. We plan to collaborate on the theory of this reaction, as future experiments are already approved at the RCNP. I have presented a seminar “The Stellar Conundrum”. I also had several enlightening discussions with Profs. Toki and Horiuchi.

Kyoto, Yukawa Institute (06/15/2008 – 06/18/2008)

I have visited the University of Kyoto, Yukawa Institute by invitation of Prof. Yoshiko Enyo. During my stay I had very fruitful conversations with Prof. Onishi at the Yukawa Institute. I have also presented a seminar “New Challenges in Nuclear Astrophysics”.

RIKEN, (06/18/2008 – 06/21/2008)

At RIKEN I had several discussions with Drs. N. Itagaki, M. Ito, T. Nakatsukasa, S. Shimoura and T. Suda. I have also invited Prof. K. Ogata for a visit to RIKEN to discuss the problem of Lorentz covariance in the Continuum-Discretized-Coupled-Channels (CDCC) calculations. We plan to write an article about our findings soon.

At RIKEN I have also presented a seminar on “Pairing Strength and Odd-even Mass Differences”.

My visit to Japan was organized by Dr. Naoyuki Itagaki, who took care of my working conditions, lodging, documents and organization of meetings. Prof. Takaharu Otsuka took part on the decisions about meetings and visits I was involved in. Finally, Ms. Tomoko Iwanami took care of many details of my visit.

My visit to Japan with JUSTIPEN was very fruitful and extremely pleasant.